FIG. 1

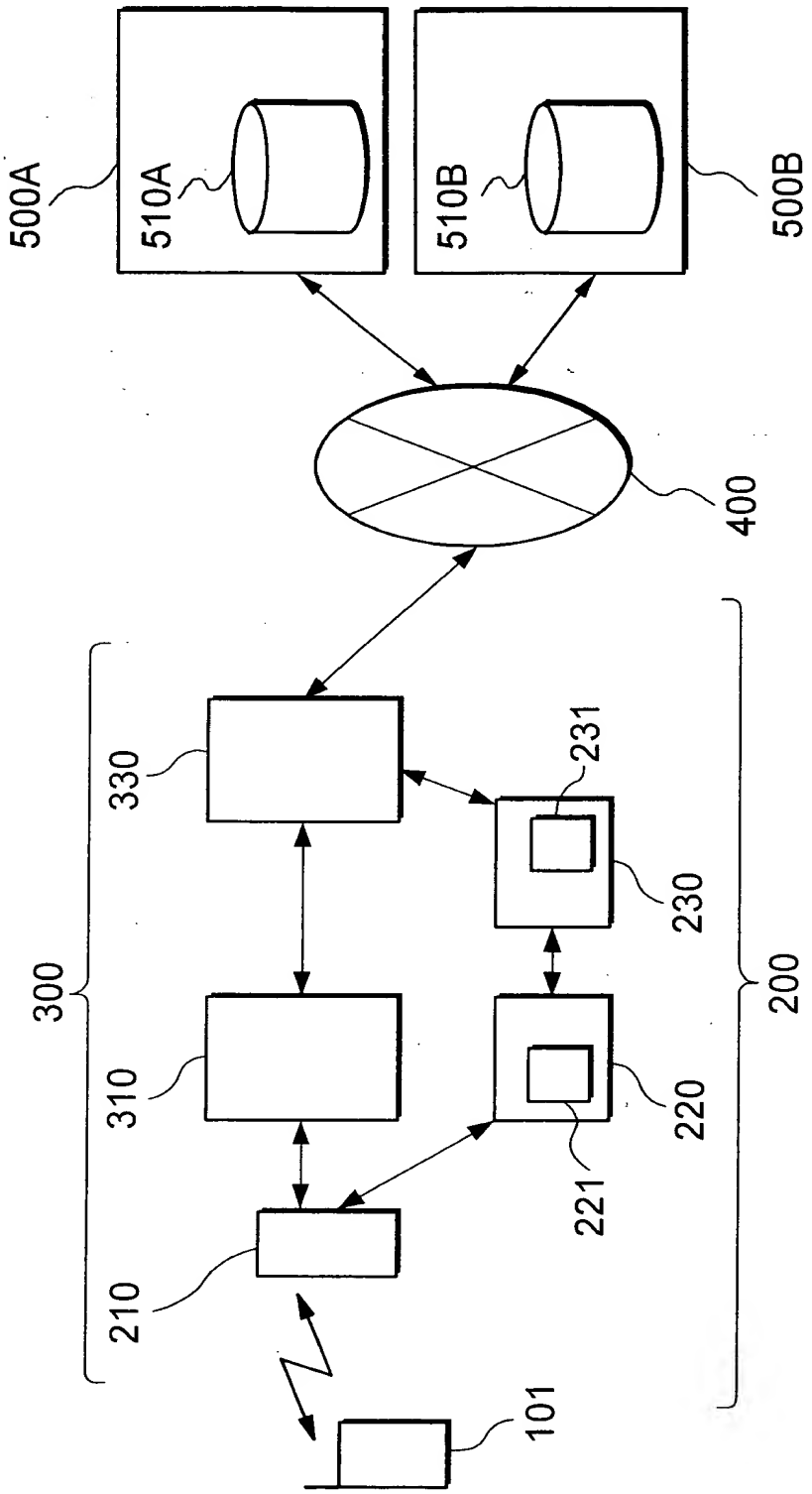

FIG. 2

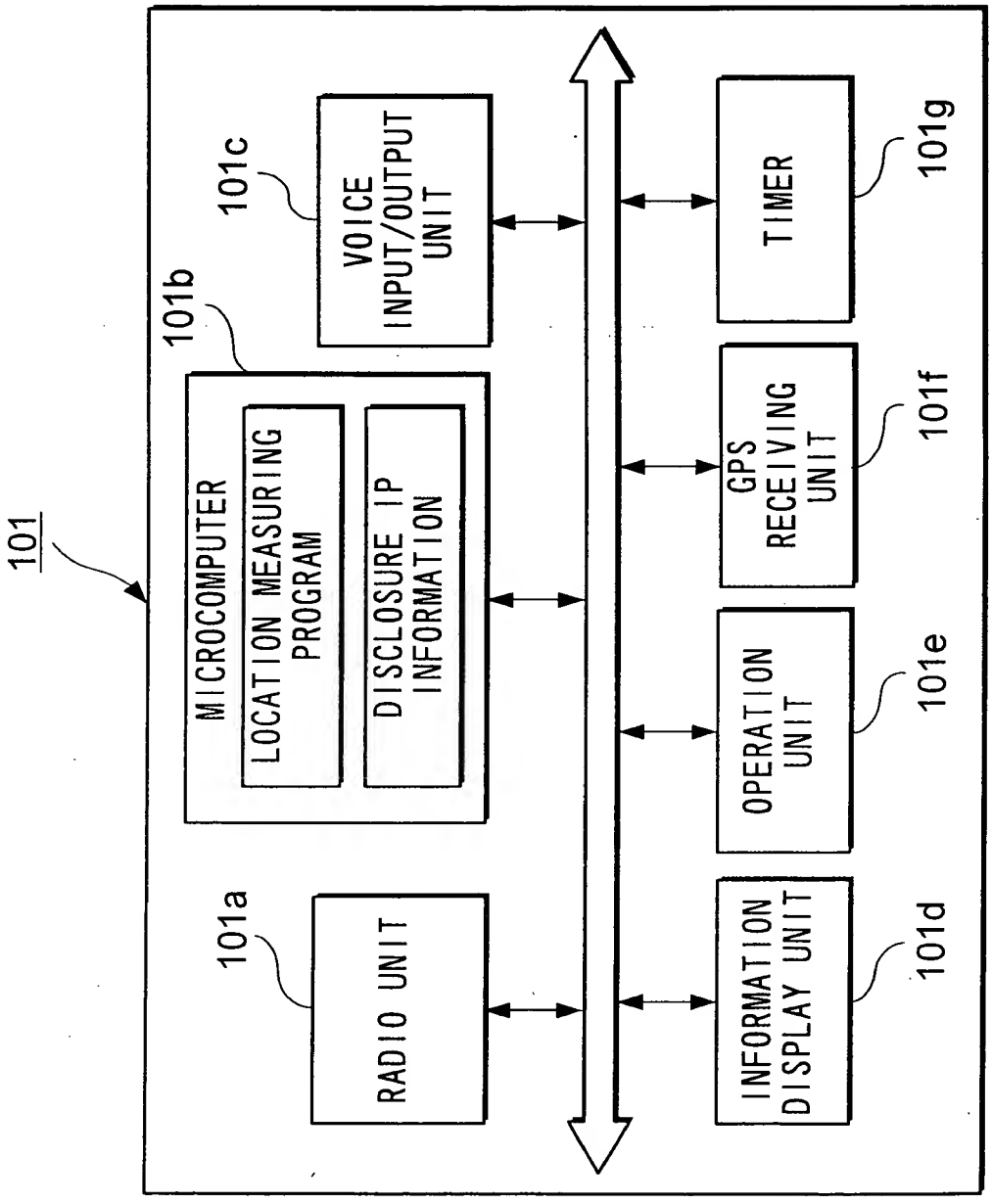
101
101a
RADIO UNIT
101b
MICROCOMPUTER
LOCATION MEASURING PROGRAM
DISCLOSURE IP INFORMATION
101c
VOICE INPUT/OUTPUT UNIT
101d
INFORMATION DISPLAY UNIT
101e
OPERATION UNIT
101f
GPS RECEIVING UNIT
101g
TIMER

FIG. 3

IP SERVER NAME	HOST NAME (URL)	SERVICE NAME	LOCATION INFORMATION DISCLOSURE FLAG	USER PERMIT FLAG
IP SERVER 500A	xxx.co.jp	LOCATION-RELATED INFORMATION PROVIDING SERVICE	ON	ON
IP SERVER 500B	yyy.co.jp	LOCATION-RELATED INFORMATION PROVIDING SERVICE	ON	
IP SERVER 500C	zzz.co.jp	WIDE AREA INFORMATION PROVIDING SERVICE	OFF	
...	...	...	...	
...	...	...	...	
...	...	...	...	
...	...	...	...	

F0827T"hEh08660

FIG. 4A

```
<HTML>
<TITLE> INFORMATION ON YOUR NEARBY SHOPS </TITLE>
<BODY>
WE OFFER VARIOUS SHOPS LOCATED NEAR YOUR PRESENT LOCATION. <BR>

<A HREF="http://xxx.co.jp/cgi-bin/restaurant.cgi?area=NULLAREA">RESTAURANT INFORMATION</A><BR>
<A HREF="http://xxx.co.jp/cgi-bin/movie.cgi?area=NULLAREA">MOVIE THEATER INFORMATION</A><BR>
<A HREF="http://xxx.co.jp/cgi-bin/artmuseum.cgi?area=NULLAREA">ART MUSEUM INFORMATION</A><BR>
<BR>
<A HREF="http://xxx.co.jp/cgi-bin/pushregist.cgi?uid=NULLID">FOLLOW-UP INFORMATION SUPPLY
REGISTRATION</A><BR>
<A HREF="http://xxx.co.jp/about.html">ABOUT THIS SERVICE</A><BR>
</BODY>
</HTML>
```


F0350/3080
Patent Application
ocation Reporting Method and Related Mobile Commu
Inventors: Hiroyuki Yamamoto et al.
9683/95
Terminal
09/980434

FIG. 4B

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FIG. 5

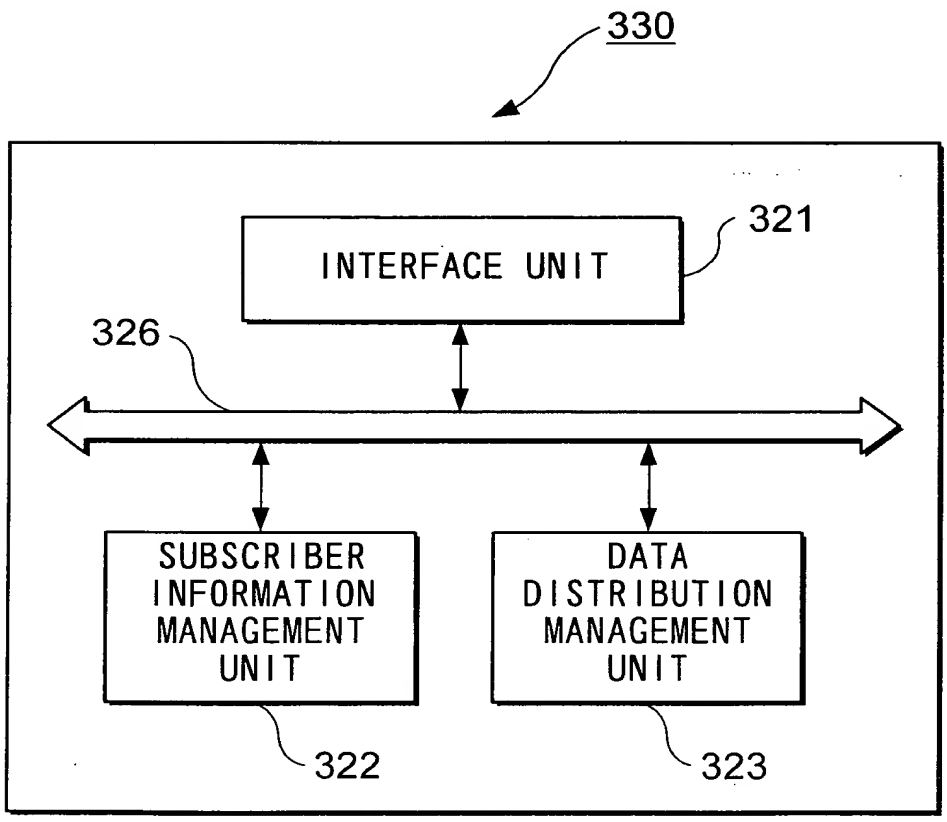

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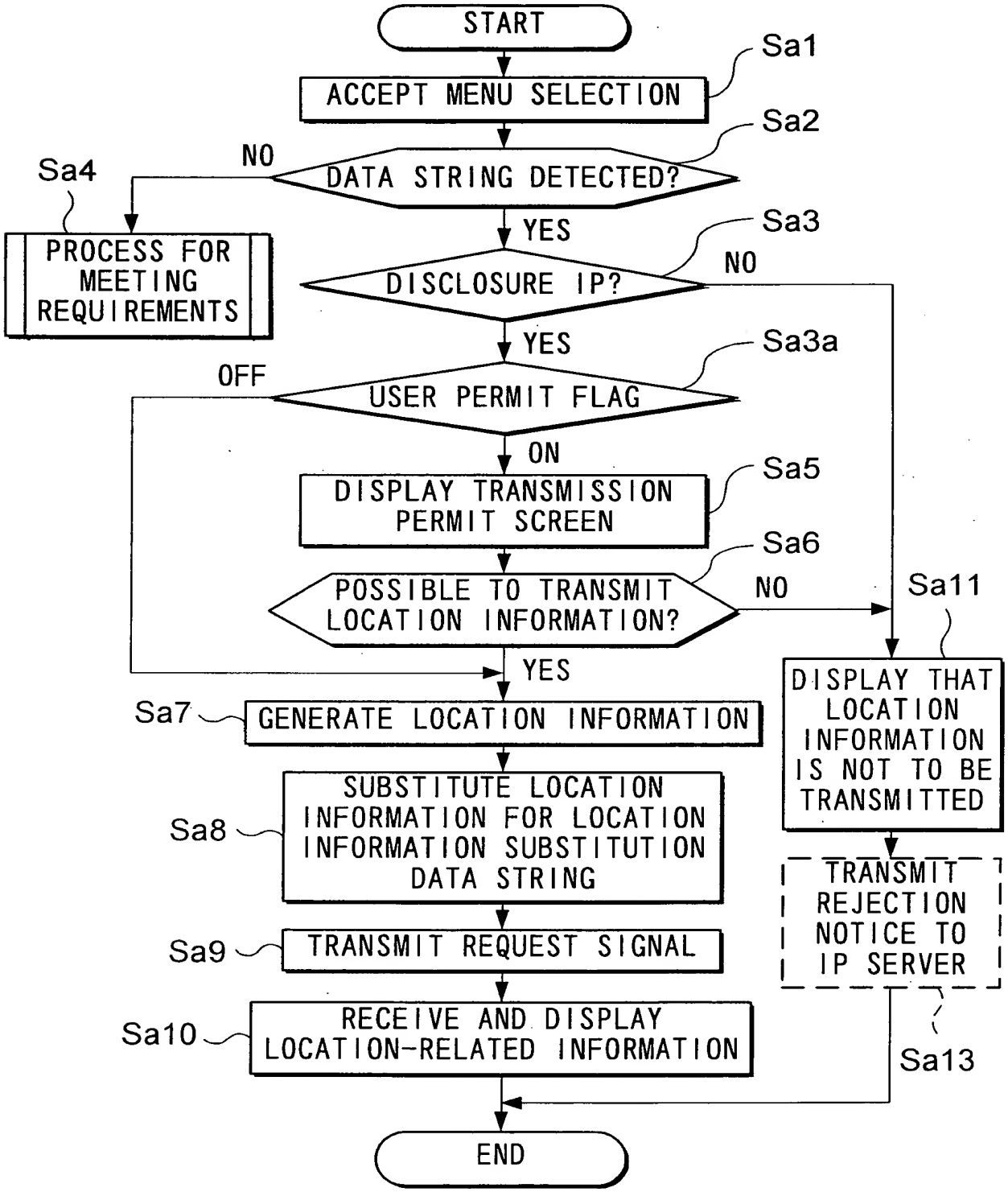
FIG. 6

AREA CODE	AREA NAME	LOCATION-RELATED INFORMATION				
		BUILDING NAME	ADDRESS	PHONE NUMBER	EVENT	OTHER INFORMATION
CODE001	1-CHOME, SHIBUYA-KU	RESTAURANT A	...	...	...	...
		...	...	...	...	...
		MOVIE THEATER B	...	...	...	...
		...	...	...	...	...
		ART MUSEUM C	...	...	...	...
		...	...	...	...	...
...	...	...	...	...	...	...
...	...	...	...	...	...	...
...	...	...	...	...	...	...
...	...	...	...	...	...	...
...	...	...	...	...	...	...
...	...	...	...	...	...	...

FIG. 7


START
Sa1
ACCEPT MENU SELECTION
Sa2
DATA STRING DETECTED?
NO
Sa4
PROCESS FOR MEETING REQUIREMENTS
YES
Sa3
DISCLOSURE IP?
NO
YES
Sa3a
USER PERMIT FLAG
OFF
ON
Sa5
DISPLAY TRANSMISSION PERMIT SCREEN
Sa6
POSSIBLE TO TRANSMIT LOCATION INFORMATION?
NO
Sa11
YES
Sa7
GENERATE LOCATION INFORMATION
DISPLAY THAT LOCATION INFORMATION IS NOT TO BE TRANSMITTED
Sa8
SUBSTITUTE LOCATION INFORMATION FOR LOCATION INFORMATION SUBSTITUTION DATA STRING
Sa9
TRANSMIT REQUEST SIGNAL
TRANSMIT REJECTION NOTICE TO IP SERVER
Sa10
RECEIVE AND DISPLAY LOCATION-RELATED INFORMATION
Sa13
END

F0350/3080
Patent Application
Location Reporting Method and Related Mobile Commun
Inventors: Hiroyuki Yamamoto et al.
9683/95
Terminal
09/980434

FIG. 8A

LOCATION INFORMATION DATA BASE

LOCATION INFORMATION		OCCUPANT INFORMATION	
		CATEGORY	NAME OF OCCUPANT
LINE p0—p1	△0	EXPRESSWAY	TOMEI EXPRESSWAY
LINE p0—p1	△1		
⋮	⋮		
LINE $p3-p_{n-1}$	$\triangle_{n-1}$		
⋮	⋮	⋮	⋮
POINT q0	r0	SHOPPING	××× TOWER SHOPPING FLOOR
POINT q1	r1	RESTAURANT	××× TOWER RESTAURANT
⋮	⋮	⋮	⋮
POINT q_{m-1}	r_{m-1}	MEETING ROOM	××× TOWER MEETING ROOM A
POINT q(NO z)	r	BUILDING	××× TOWER

FIG. 8B

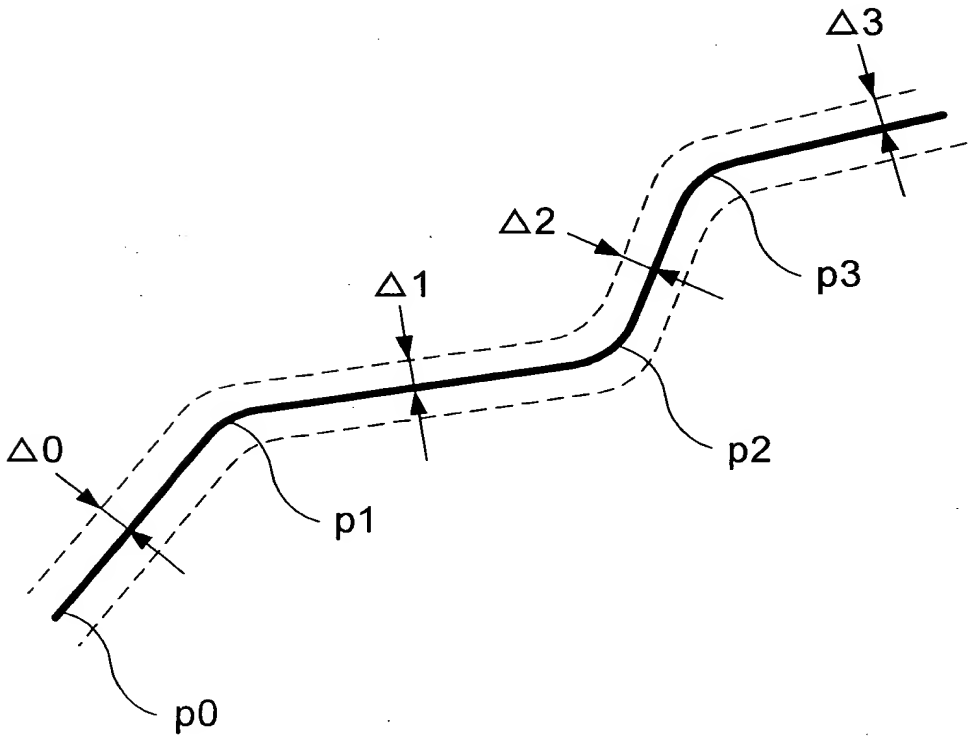


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FIG. 8C

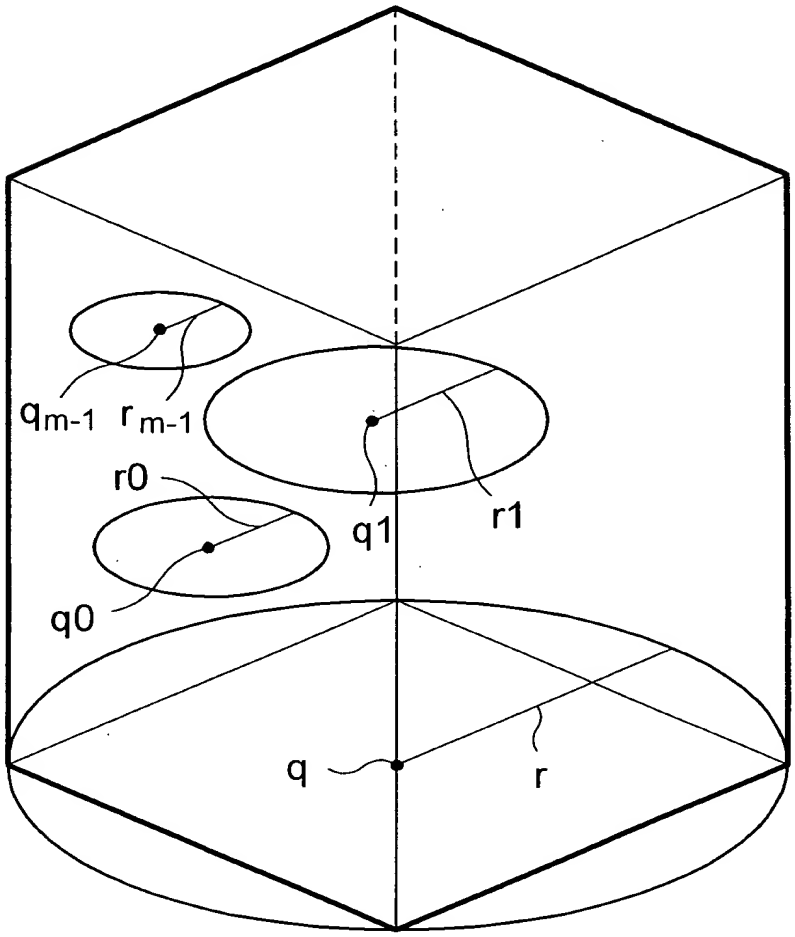

FIG. 8D

CATEGORY	STATE
EXPRESSWAY	MOVING
RAILROAD	MOVING
SEA	MOVING
PEDESTRIAN WALK	MOVING
SHOPPING	SHOPPING
RESTAURANT	DINING
MEETING ROOM	MEETING
.....	.....
.....	.....

09980434 - 112801

FIG. 9

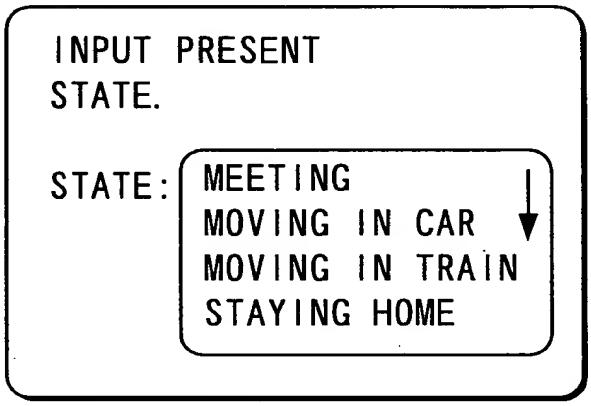

FIG. 10

MOBILE STATION ID	LOCATION INFORMATION DISCLOSURE IP SERVER
MS09011111111	IP SERVER 500A
	IP SERVER 500B
	IP SERVER 500H
	.....
MS09011111112	IP SERVER 500D
	IP SERVER 500M
	.....
.....	.....

FIG. 11

MOBILE STATION ID NOT DISCLOSING LOCATION INFORMATION
MS09011111122
MS09011155555
.....
.....
.....
.....

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FIG. 12A

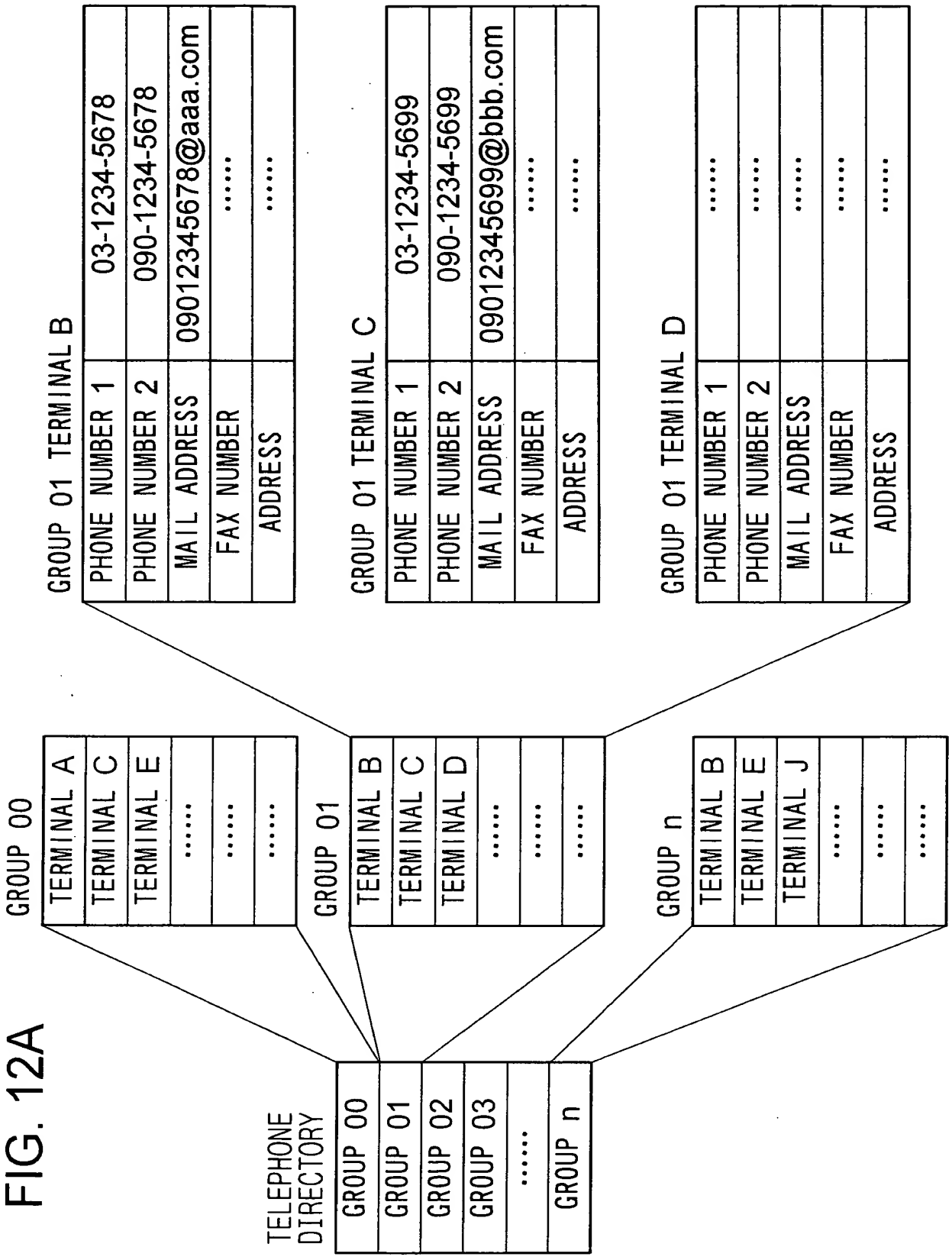
TELEPHONE DIRECTORY
GROUP 00
GROUP 01
GROUP 02
GROUP 03
.....
GROUP n
GROUP 00
TERMINAL A
TERMINAL C
TERMINAL E
.....
.....
.....
GROUP 01
TERMINAL B
TERMINAL C
TERMINAL D
.....
.....
.....
GROUP n
TERMINAL B
TERMINAL E
TERMINAL J
.....
.....
.....
GROUP 01 TERMINAL B
PHONE NUMBER 1
03-1234-5678
PHONE NUMBER 2
090-1234-5678
MAIL ADDRESS
09012345678@aaa.com
FAX NUMBER
.....
ADDRESS
.....
GROUP 01 TERMINAL C
PHONE NUMBER 1
03-1234-5699
PHONE NUMBER 2
090-1234-5699
MAIL ADDRESS
09012345699@bbb.com
FAX NUMBER
.....
ADDRESS
.....
GROUP 01 TERMINAL D
PHONE NUMBER 1
.....
PHONE NUMBER 2
.....
MAIL ADDRESS
.....
FAX NUMBER
.....
ADDRESS
.....

FIG. 12B

DESTINATION GROUP ACCESS TABLE

	GROUP NO.					
TERMINAL	00	01	02	03	04	.....
TERMINAL A	NOT ACCESSIBLE	ACCESSIBLE	NOT ACCESSIBLE	NOT ACCESSIBLE	ACCESSIBLE	.....
TERMINAL E	NOT ACCESSIBLE	NOT ACCESSIBLE	ACCESSIBLE	NOT ACCESSIBLE	NOT ACCESSIBLE	.....
TERMINAL F	ACCESSIBLE	NOT ACCESSIBLE	NOT ACCESSIBLE	ACCESSIBLE	NOT ACCESSIBLE	.....
.....						
.....						

09980434 "11280"

FIG. 13

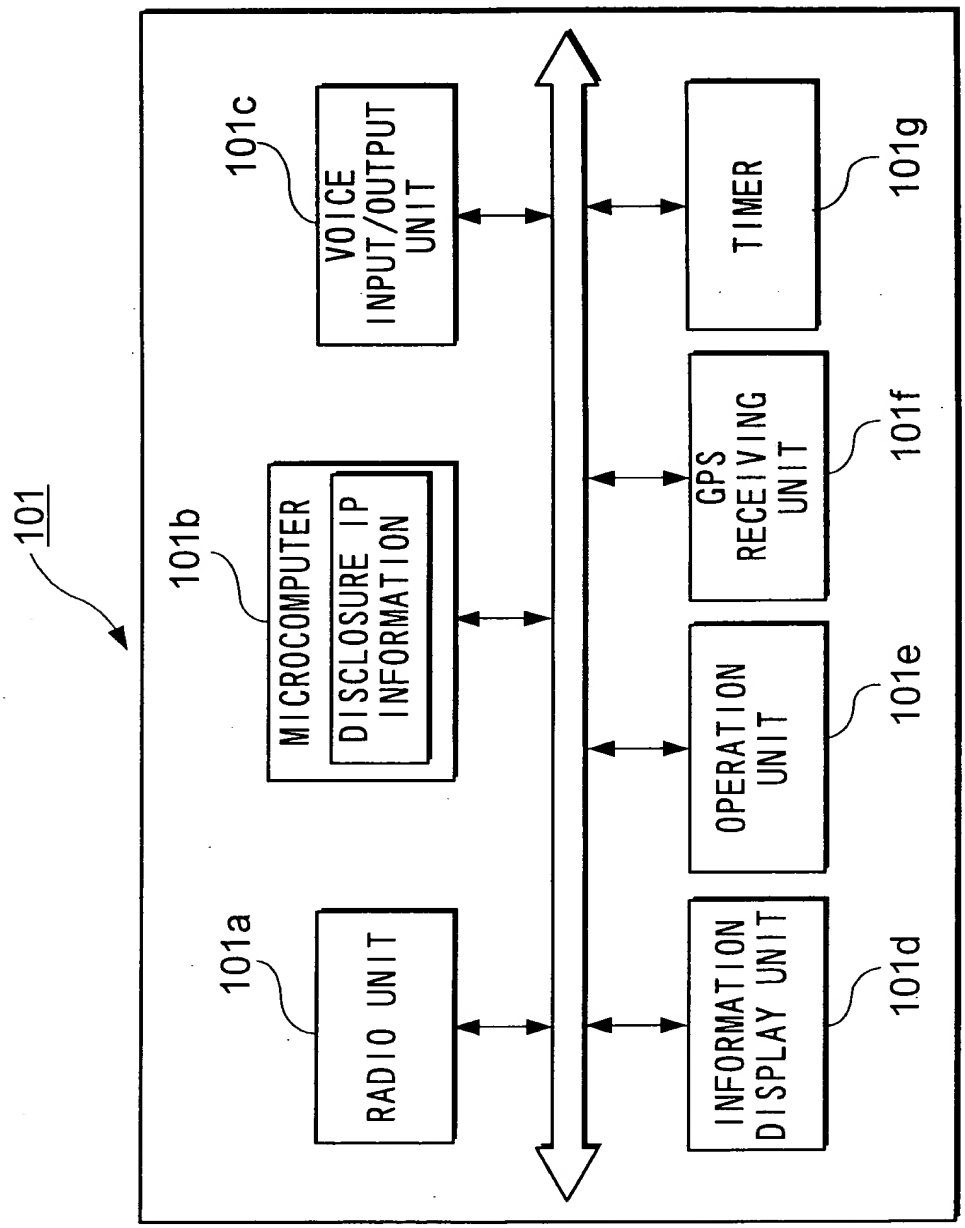
101
101a
RADIO UNIT
101b
MICROCOMPUTER
DISCLOSURE IP INFORMATION
101c
VOICE INPUT/OUTPUT UNIT
101d
INFORMATION DISPLAY UNIT
101e
OPERATION UNIT
101f
GPS RECEIVING UNIT
101g
TIMER

FIG. 14

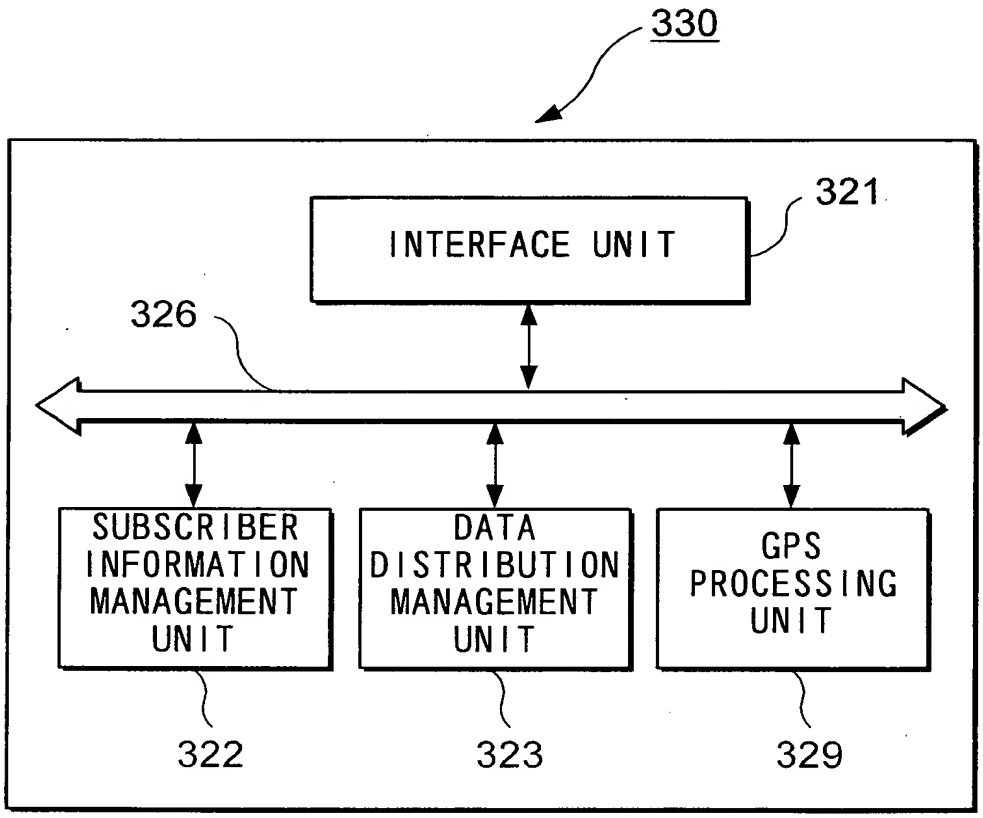
330
321
INTERFACE UNIT
326
SUBSCRIBER INFORMATION MANAGEMENT UNIT
DATA DISTRIBUTION MANAGEMENT UNIT
GPS PROCESSING UNIT
322
323
329

FIG. 15

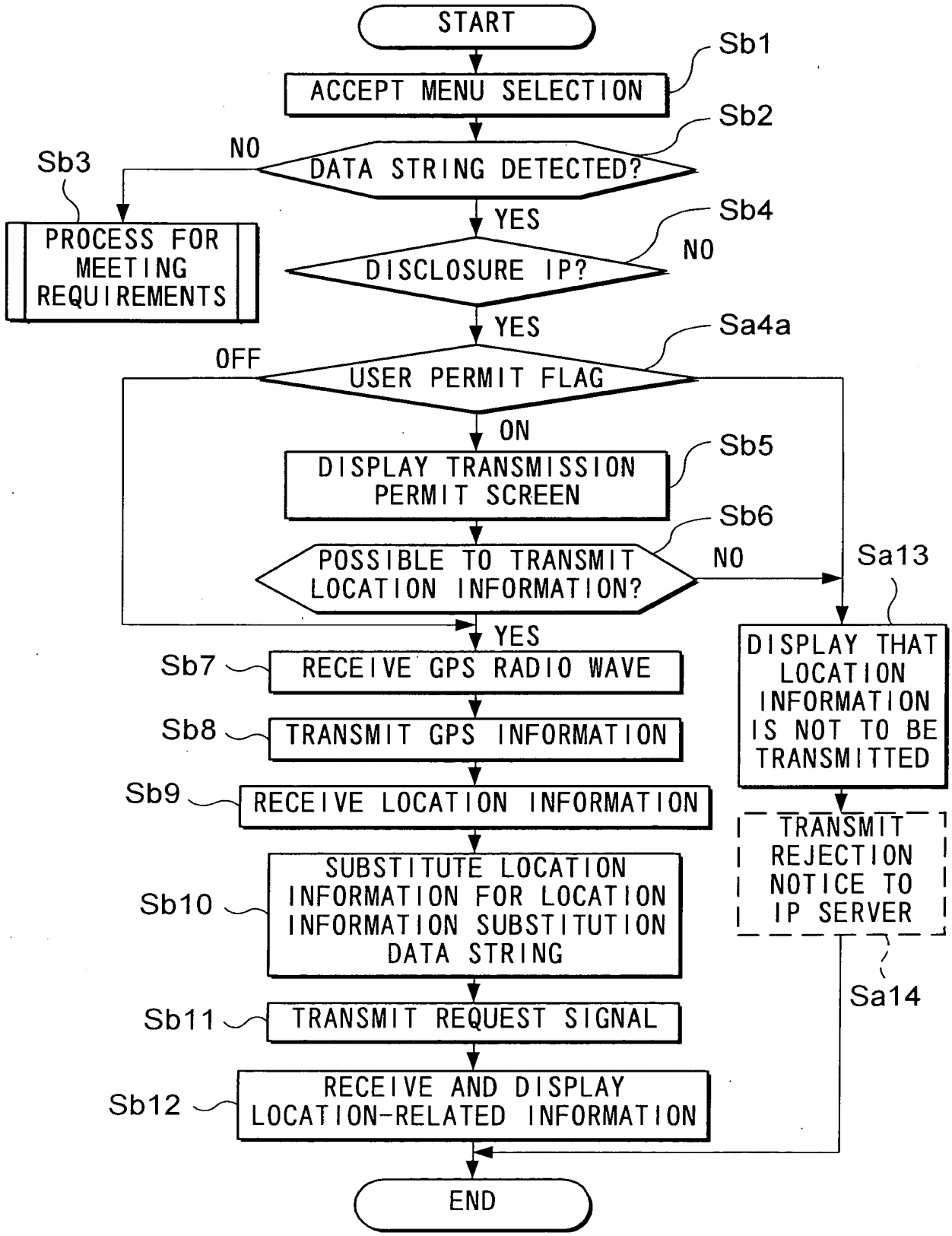
START
Sb1
ACCEPT MENU SELECTION
Sb2
NO
DATA STRING DETECTED?
Sb3
PROCESS FOR MEETING REQUIREMENTS
YES
Sb4
DISCLOSURE IP?
NO
YES
Sa4a
OFF
USER PERMIT FLAG
ON
Sb5
DISPLAY TRANSMISSION PERMIT SCREEN
Sb6
POSSIBLE TO TRANSMIT LOCATION INFORMATION?
NO
Sa13
YES
Sb7
RECEIVE GPS RADIO WAVE
Sb8
TRANSMIT GPS INFORMATION
Sb9
RECEIVE LOCATION INFORMATION
Sb10
SUBSTITUTE LOCATION INFORMATION FOR LOCATION INFORMATION SUBSTITUTION DATA STRING
Sb11
TRANSMIT REQUEST SIGNAL
Sb12
RECEIVE AND DISPLAY LOCATION-RELATED INFORMATION
DISPLAY THAT LOCATION INFORMATION IS NOT TO BE TRANSMITTED
TRANSMIT REJECTION NOTICE TO IP SERVER
Sa14
END

FIG. 16

```
http://xxx.co.jp/cgi-bin/resutaurant.cgi?area  =
NULLAREA(·gps)
http://xxx.co.jp/cgi-bin/move.cgi?area  =NULLAREA(·bs)
```

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FIG. 17

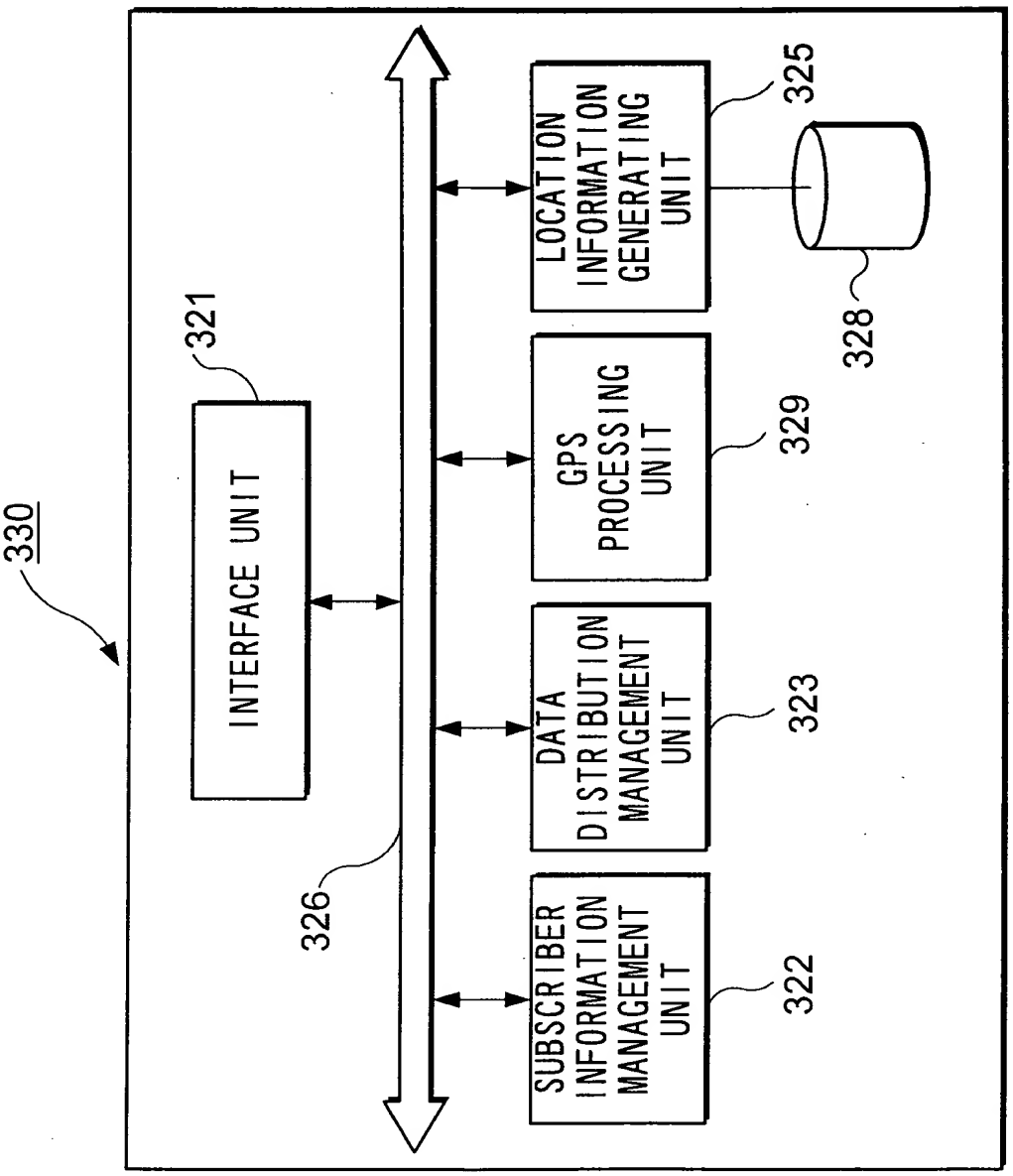
330
INTERFACE UNIT
321
326
LOCATION INFORMATION GENERATING UNIT
325
328
GPS PROCESSING UNIT
329
DATA DISTRIBUTION MANAGEMENT UNIT
323
SUBSCRIBER INFORMATION MANAGEMENT UNIT
322

FIG. 18

BASE STATION ID	AREA CODE
BS001～ BS005	CODE001
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....

09980434 111801

FIG. 19

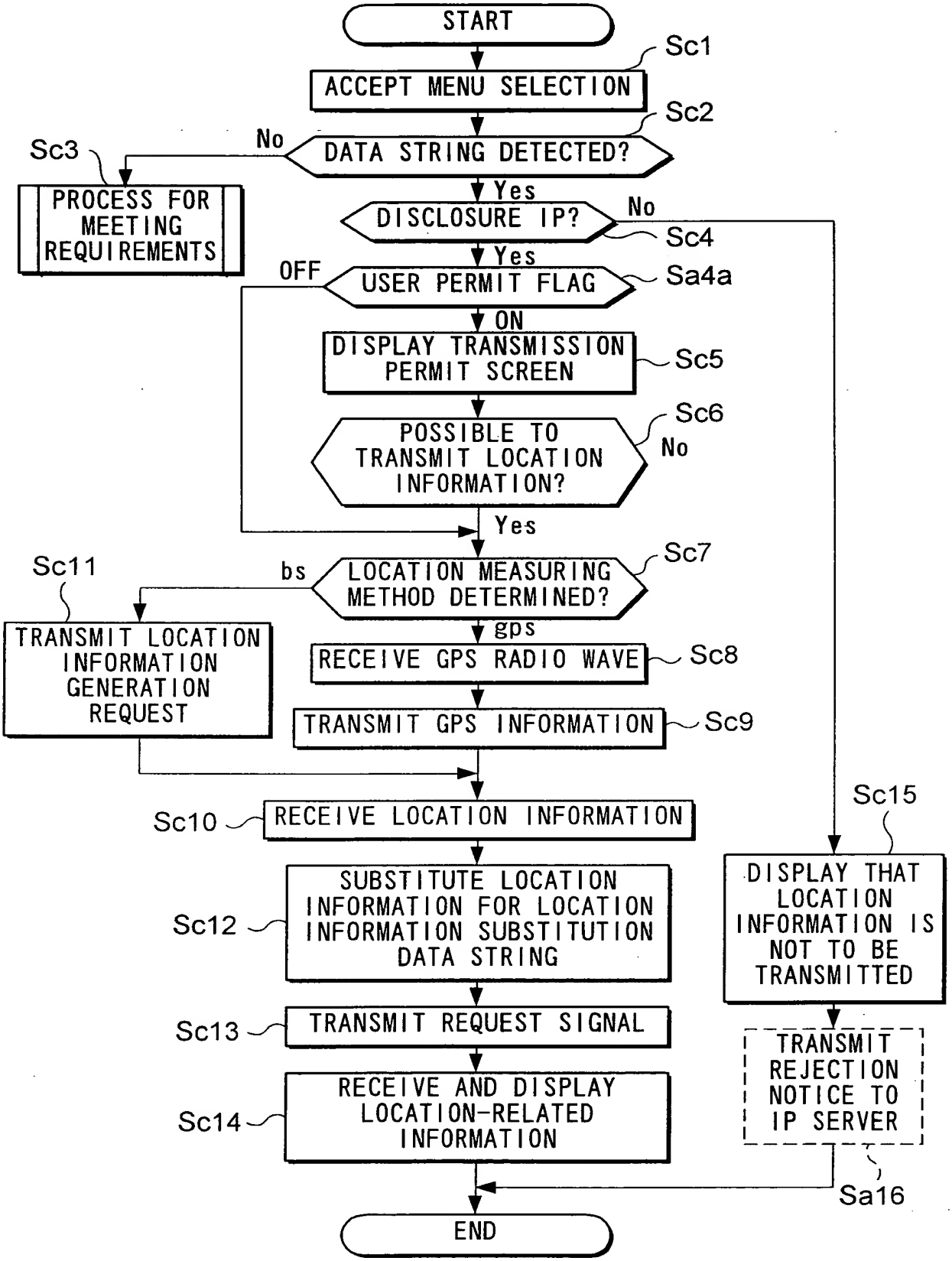

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FIG. 20A

	LOCATION MEASURING METHOD	NOTE	ACCURACY	TIME
G4	GPS	FOUR SATELLITES	HIGH	VERY DETERIORATED
G3	GPS	THREE SATELLITES	STANDARD	DETERIORATED
G2	GPS	TWO SATELLITES	LOW	NOT SO DETERIORATED
B3	BTS	THREE BASE STATIONS	STANDARD	RATHER IMPROVED
B2	BTS	TWO BASE STATIONS	LOW	MUCH IMPROVED

FIG. 20B

PARAMETER	CONTENTS
T	PRIORITY TO TIME
A	PRIORITY TO ACCURACY
TG	PRIORITY TO TIME WITH GPS
AB	PRIORITY TO ACCURACY WITH BTS

FIG. 21A

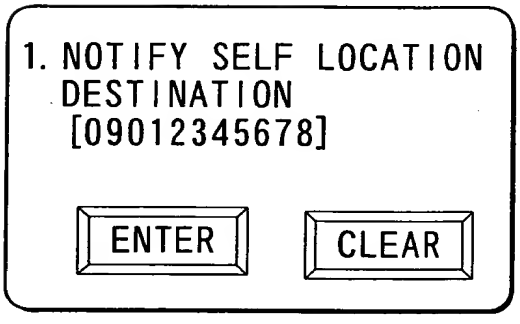

FIG. 21B

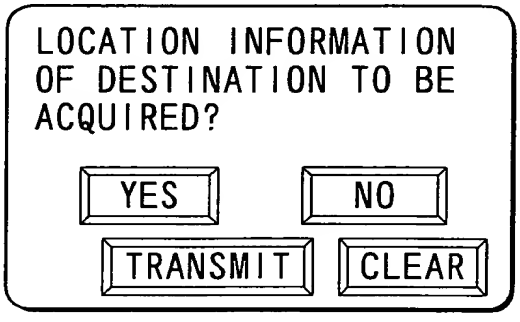

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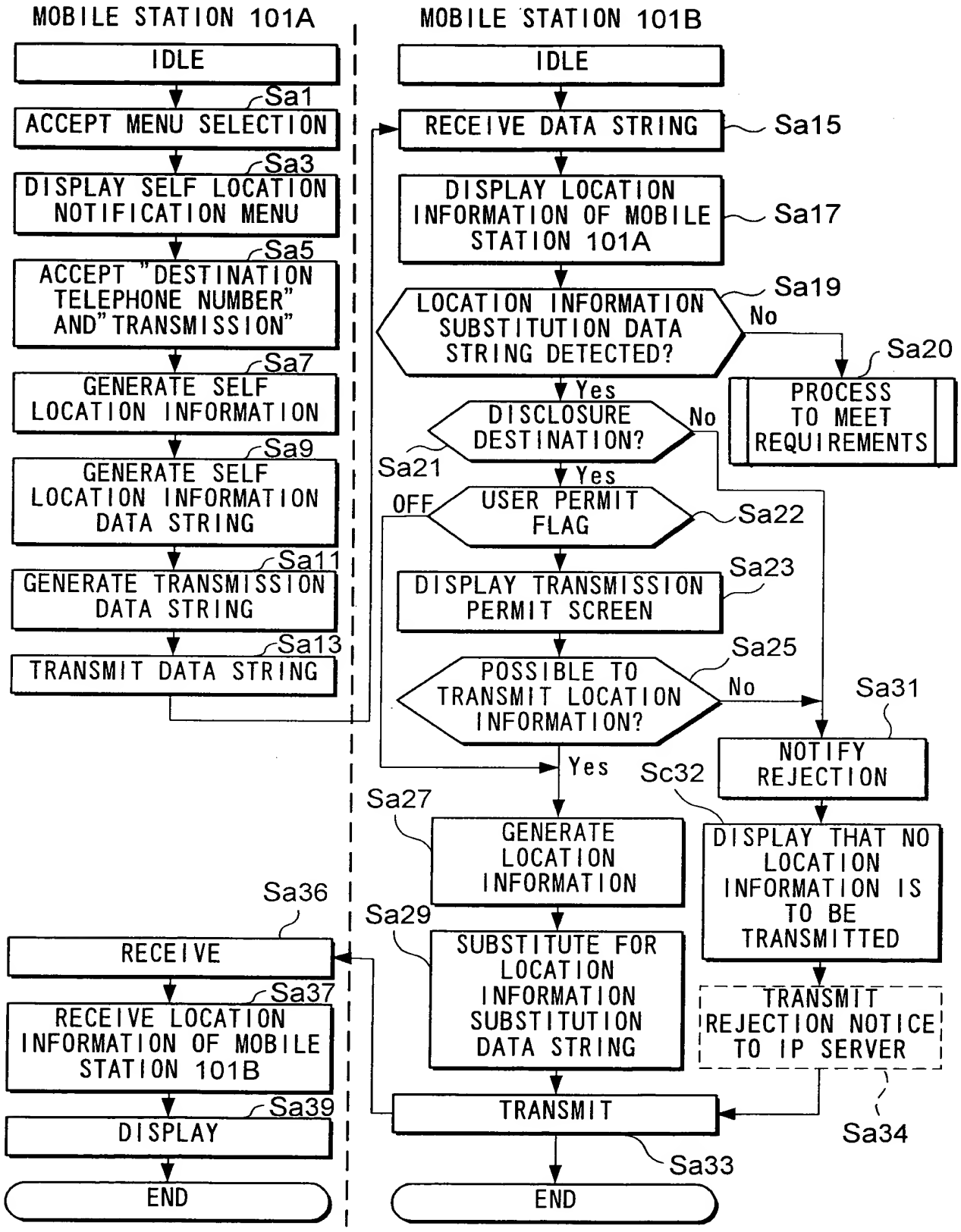
FIG. 22



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